



**TOROS TARIM**  
**SAFETY DATA SHEET**

**Potassium nitrate**

According to Regulation (EU) No 2015/830

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

<b>Product name</b>	<b>Potassium nitrate</b>
<b>CAS No.</b>	7757-79-1
<b>EC No.</b>	231-818-8

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses** Plant nutrition products.

**1.3. Details of the supplier of the safety data sheet**

<b>Manufacturer</b>	<b>Center: Toros Tarım Sanayi ve Ticaret A.Ş.</b>
	Tekfen Tower Büyükdere Cad. No:209
	34394 4. Levent Şişli / İstanbul
	T: +90 212 357 02 02
	F: +90 212 357 02 31
	www.toros.com.tr

**1.4. Emergency telephone number**

Samsun Production Facilities: +90 362 256 09 80

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

**Classification (EC 1272/2008)**

Physical and Chemical Hazards	Ox. Sol. 3 - H272
Human health	Not classified.
Environment	Not classified.

The Full Text for all Hazard Statements are Displayed in Section 16.

**2.2. Label elements**

**Label In Accordance With (EC) No. 1272/2008**

**CAS No.:** 7757-79-1



**Signal Word**

Warning

**Hazard Statements**

H272 May intensify fire; oxidiser.

**Precautionary Statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220	Keep/Store away from clothing/combustible materials.
P221	Take any precaution to avoid mixing with combustibles and reducing agents.





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#### **5.2. Special hazards arising from the substance or mixture**

##### **Specific hazards**

In case of fire, toxic gases and vapours, Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Potassium oxides may be formed.

#### **5.3. Advice for firefighters**

##### **Special Fire Fighting Procedures**

Avoid breathing fire vapours. Clear fire area of all non-emergency personnel. Move container from fire area if it can be done without risk. Dike and collect extinguishing water. Prevent extinguish water discharge into sewers or water sources.

##### **Protective equipment for fire-fighters**

In case of fire, wear self-contained breathing apparatus and full protective clothing.  
Face mask, protective gloves and safety helmet.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust. Avoid dust formation. Avoid contact with eyes. Provide adequate ventilation.

#### **6.2. Environmental precautions**

Avoid discharge into water courses or onto the ground. In case of spills or discharges to the water source, it is necessary to apply to the relevant environmental agency or relevant authorities immediately.

#### **6.3. Methods and material for containment and cleaning up**

The spilled material should be collected mechanically and transferred to a suitable labelled waste tank. It should not mix with waste wood chips or any flammable material. Do not discharge into water sources or sewers.

#### **6.4. Reference to other sections**

For personal protection, see section 8.  
See section 11 for additional information on health hazards.  
For waste disposal, see section 13.

### **SECTION 7: HANDLING AND STORAGE**

#### **7.1. Precautions for safe handling**

Avoid dust formation. Avoid contact with eyes. Eye wash facilities and emergency shower must be available when handling this product. Store away from organic and explosive materials. In case of dust formation use appropriate mask. Good personal hygiene is necessary. Do not eat, drink or smoke when using the product. Observe good chemical hygiene practices.

#### **7.2. Conditions for safe storage, including any incompatibilities**

Store in a dry, cool place in tightly closed original packaging. It should be stored away from combustible materials and any source of ignition. Keep away from food, drinks and animal feed. Protect direct sunlight. Prevent humidity in storage. Store away from organics and combustible materials

#### **7.3. Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **8.1. Control parameters**

There is no specific exposure limit reported for the substance.



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#### 8.2. Exposure controls

##### Protective equipment



##### Process conditions

Provide eyewash, quick drench.

##### Engineering measures

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of dust.

##### Respiratory equipment

P2 type dust mask should be used when dust concentration is high.

##### Hand protection

Use protective gloves if there is a risk of contact with hands.

The most proper glove should be selected in consultation with the glove supplier. The glove supplier will be able to provide information about the permeability / deterioration time of the glove material.

##### Eye protection

Protective safety goggles (EN 166) or face shield should be used.

##### Hygiene measures

Wash hands after contact. Change work clothing daily before leaving work place.

Wash contaminated clothing before reuse. When using do not eat, drink or smoke.

##### Skin protection

Use proper skin protection equipment.

##### Environmental Exposure Controls

Please act in accordance with local and national laws.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

##### 9.1. Information on basic physical and chemical properties

Appearance	Solid, powder.
Colour	Various colors.
Odour	Odourless
Solubility	Soluble in cold water.
Melting Point	335 °C
Initial boiling point and range	Not applicable.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Bulk density	700-1300 kg/m <sup>3</sup>
Relative density	No information available.
pH-Value	6-9 (5 % solution)
Oxidative properties	No information available.
Explosive properties	No information available.



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**9.2. Other information**

No information required.

**SECTION 10: STABILITY AND REACTIVITY**

**10.1. Reactivity**

Stable under the prescribed storage conditions.

**10.2. Chemical stability**

Stable under normal temperature conditions and recommended use. Stable under the prescribed storage conditions.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

Avoid exposure to high temperatures or direct sunlight.

**10.5. Incompatible materials**

Avoid flammable substances, acids and bases.

**10.6. Hazardous decomposition products**

Strong oxidisers may cause corrosion for some metals.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

**Acute toxicity**

LD50, Oral	>2000 mg/kg	mouse
LD50, Dermal	>5000 mg/kg	
LC50, Inhalation	>0,527 mg/l	4 h

**Skin corrosion/irritation**

May cause irritation.

**Serious eye damage/irritation**

May cause irritation.

**Respiratory or skin sensitisation:**

No information available.

**Carcinogenicity**

No information available.

**STOT-single exposure**

No information available.

**STOT-repeated exposure**

No information available.

**Germ cell mutagenicity**

No information available.

**Reproductive Toxicity**

No information available.

**Aspiration Toxicity**

No information available.



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**Inhalation**

May be harmful by inhalation. It may cause damage to the nose, throat, lungs and bronchi system.

**Ingestion**

May be harmful if swallowed. May cause chemical burns in mouth, esophagus and stomach.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

Based on available data the classification criteria are not met.

**Fish**

LC50 - Gambusia affinis - 22,5 mg/l - 96 h

**Daphnia and other crustaeous**

EC50 - Daphnia magna (Daphnia)- 226 mg/l - 72 h

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

This product does not contain any PBT or vPvB substances.

**12.6. Other adverse effects**

It shouldn't be discharged to the environment.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

Avoid access to water sources and channels. The product packaging must be completely emptied and must be disposed of within the framework of legislation.

**SECTION 14: TRANSPORT INFORMATION**

**General**

This substance/mixture may be classified as hazardous. However, it may be dispatched as non-hazardous substance in cases when the packaging is under limited / exceptional quantity. Please follow the relevant regulations.

**14.1. UN number**

UN No. (ADR/RID/ADN) 1486

UN No. (IMDG) 1486

UN No. (ICAO) 1486

**14.2. UN proper shipping name**

Proper Shipping Name POTASSIUM NITRATE

**14.3. Transport hazard class(es)**

ADR/RID/ADN Class 5.1



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<b>ADR/RID/ADN Class</b>	Class 5.1: Oxidising substances
<b>ADR Label No.</b>	5.1
<b>IMDG Class</b>	5.1
<b>ICAO/IATA Class</b>	5.1
<b>Transport Labels</b>	



#### 14.4. Packing group

<b>ADR/RID/ADN Packing group</b>	III
<b>IMDG Packing group</b>	III
<b>ICAO/ IATA Packing group</b>	III

#### 14.5. Environmental hazards

**Environmentally Hazardous Substance/Marine Pollutant**  
No.

#### 14.6. Special precautions for user

<b>Limited Quantities</b>	5 Kg
<b>EMS</b>	F-A, S-Q
<b>Emergency Action Code</b>	1Z
<b>Hazard No. (ADR)</b>	50
<b>Tunnel Restriction Code</b>	(E)

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

### SECTION 15: REGULATORY INFORMATION

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### UK Regulatory References

Chemicals (Hazard Information & Packaging) Regulations.  
Fire precautions Act 1971.

##### Environmental Listing

No listing noted.

##### Statutory Instruments

Export of Dangerous Chemicals Regulations.

##### Approved Code Of Practice

Safety Data Sheets for Substances and Preparations.

##### Guidance Notes

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

##### EU Legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures.

#### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.



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**SECTION 16: OTHER INFORMATION**

**Abbreviations and acronyms used in the safety data sheet**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.  
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.  
IATA: International Air Transport Association.  
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.  
IMDG: International Maritime Dangerous Goods.  
CAS: Chemical Abstracts Service.  
ATE: Acute Toxicity Estimate.  
LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.  
LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).  
EC<sub>50</sub>: 50% of maximal Effective Concentration.  
PBT: Persistent, Bioaccumulative and Toxic substance.  
vPvB: Very Persistent and Very Bioaccumulative.

**Information Sources**

This SDS is written based on the information received from rawmaterial supplier.  
European Chemicals Agency (ECHA)

**Revision Comments**

Revised in compliance with current regulations.

**Hazard Statements in Full**

H272 May intensify fire; oxidiser.

**Issued By**

Betül SEVİM/ CRAD  
[gbf@crad.com.tr](mailto:gbf@crad.com.tr)

**Issued Note**

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